

INFORMATION DISCLOSURE  
CITATION IN AN  
APPLICATION  
(PTO-1449)

ATTY. DOCKET NO.  
114232.107

SERIAL NO.  
09/518,098

APPLICANT  
Leland SHAPIRO

FILING DATE  
May 3, 2000

GROUP  
1653

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
X	AA	5,175,253	12/29/92	Fallon et al.			
	AB	5,214,191	5/25/93	Kirschenheuter et al			
	AC	5,240,956	8/31/93	Kirschenheuter et al			
	AD	5,281,617	1/25/94	Kirschenheuter et al			
	AE	5,314,910	5/24/94	Kirschenheuter et al			
	AF	5,416,191	5/16/95	Cheronis et al			
X	AG	5,478,727	12/26/95	Roizman et al			
	AH	5,486,470	1/23/96	Darke et al			
	AI	5,514,653	5/7/96	Perlmutter			
	AJ	5,610,140	3/11/97	Goodfellow et al			
	AK	5,635,593	6/3/97	Cheronis et al			
	AL	5,663,416	9/2/97	Kirschenheuter et al			
X	AM	5,700,779	12/23/97	Goodfellow et al			
	AN	5,710,026	1/20/98	Sprecher			
	AO	5,712,117	1/27/98	Sprecher			
	AP	5,747,645	6/6/98	Sprecher			
	AQ	5,750,506	5/12/98	Goodfellow et al			
	AR	5,759,548	6/2/98	Bathurst et al.			
	AS	5,798,442	8/25/98	Gallant et al.			
	AT	5,811,241	9/22/98	Goodfellow et al			
X	AU	5,834,431	11/10/98	Stewart et al			
	AV	5,843,900	12/1/98	Cheronis et al			
	AW	5,849,863	12/15/98	Stewart et al			
	AX	5,863,899	1/26/99	Cheronis et al			
	AY	5,874,424	2/23/99	Batchelor et al.			

EXAMINER *Not considered*

DATE CONSIDERED 1

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## GROUP

[illegible]

12/9/01

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<p>OPEN INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)</p>		ATTY. DOCKET NO. 114232.107	SERIAL NO. 09/518,098
		APPLICANT Leland SHAPIRO	
		FILING DATE May 3, 2000	GROUP 1653
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
✓	CA	Adelman S.F. et al., "Protease inhibitors suppress fibrinolytic activity of herpesvirus-transformed cells", <i>J Gen Virol</i> , 1982, 60(Pt 1):15-24.	
✓	CB	Altieri, D.C. <i>J Leukoc Biol</i> 1995, 58, <del>603</del> 120-127	
X	CC	<del>Animal Cell Culture</del> , R. I. Freshney, ed., 1986	
✓	CD	Aoki H, Akaike T, Abe K, Kuroda M, Arai S, Okamura R, Negi A, Maeda H. <i>Antiviral effect of oryzacystatin, a proteinase inhibitor in rice, against herpes simplex virus I in vitro and in vivo</i> . <i>Antimicrob Agents Chemother</i> 1995 Apr;39(4):846-9	
↓	CE	Beal, M.F., "Mitochondria, Free Radicals, and Neurodegeneration", <i>Curr. Opin. Neurobiol.</i> , 1996, 6, 661-666	
↓	CF	Beck, K.F. et al. in <i>J Exp Biol</i> 1999, 202, <del>603</del> 645-653	
↓	CG	Bjorck L, Grubb A, Kjellen L. Cystatin C, a human proteinase inhibitor, blocks replication of herpes simplex virus. <i>J Virol</i> 1990 Feb;64(2):941-3	
✓	CH	Bratt J, Palmblad J. <i>Cytokine-induced neutrophil 5 mediated injury of human endothelial cells</i> . <i>J Immunol</i> 1997 Jul 15; 159(2):812-8	
X	CI	<del>Bukrinskaia AG, Kitsak Vla, Moisiadi SA, Arakelov SA. Suppression of rotavirus SA-II reproduction by protease inhibitors in cell culture. Vopr Virusol 1987 Jan-Feb;32(1):71-4</del>	
✓	CJ	Chesnokova NB, Maichuk YF. <i>Antiproteases in herpetic keratitis</i> . <i>Metab Pediatr Syst Ophthalmol</i> 1986;9(1):593-6	
X	CK	<del>Chesnokova NB, Kasavina BS, Maichuk IuF, Kazachenko MA, Shchipanova AI. Main proteolytic inhibitors in ocular herpes. Vopr Med Khim 1981 Sep-Oct;27(5):663-5</del>	
✓	CL	Cilberto et al., 1995, <i>Cell</i> , 41:531-540	
↓	CM	Deigner, H.P. and R. Kinscherf, "Modulating Apoptosis: Current Applications and Prospects for Future Drug Development", <i>Curr Med Chem</i> 1999, 6, 399-414	
↓	CN	Dery, O. and Bunnett, N.W. <i>Biochem Soc Trans</i> 1999, 27, 246-254	
↓	CO	Dery, O. et al. <i>Am J Physiol</i> 1998, 274, C 1429-C 1452	
✓	CP	DiIanni CL, Drier DA, Deckman IC, McCann PJ 3d, Liu F, Roizinan B, Colonno RJ, Cordingley MG. Identification of the herpes simplex virus-I protease cleavage sites by direct sequence analysis of autoproteolytic cleavage products. <i>Biol Chem</i> 1993 Jan 25;268(3):2048-51	
EXAMINER		DATE CONSIDERED 12/4/01	

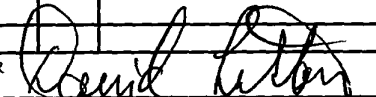
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DR	CQ	Dilanni CL, Stevens JT, Bolgar M, O'Boyle DR 2nd, Weinheimer SP, Colonno RJ. Identification of the serine residue at the active site of the herpes simplex virus type 1 protease. <i>J Biol Chem</i> 1994 Apr 29;269(17):12672-6	
DR	CR	Ding, A. et al., in <i>J. Immunol.</i> 1990, 145, 940	
DR	CS	Estaquier J, Tanaka M, Suda T, Nagata S, Golstein P, Ameisen JC. Fas-mediated apoptosis of CD4+ and CD8+ T cells from human immunodeficiency virus-infected persons: differential in vitro preventive effect of cytokines and protease antagonists. <i>Blood</i> 1996 Jun 15;87(12):4959-66	
DR	CT	Flaitz CM, Hicks MJ. "Molecular piracy: the viral link to carcinogenesis." <i>Oral Oncol</i> 1998 Nov;34(6):448-53	
X	CU	Glynn JM, McElligott DL, Mosier DE. Apoptosis induced by HIV 5 infection in H9 T cells is blocked by ICE-family protease inhibition but not by a Fas(CD95) antagonist. <i>J Immunol</i> 1996 Oct 1;157(7):2754-2758	
DR	CV	Goureau, O. et al., in <i>Proc. Natl. Acad. Sci. U.S.A.</i> 1993, 90, 4276	
DR	CW	Griffin, William C. , "Calculation of HLB Values of Non-Ionic Sufactants", [H. L. B. - The Hydrophilic-Lipophilic Balance], <i>J. Soc. Cos. Met. Chem.</i> , Vol. 5, p. 249 (1954)	
	CX	Heck, D. E. et al., in <i>J. Biol. Chem.</i> 1990, 267, 21277	
	CY	Holwerda BC. Herpesvirus proteases: targets for novel antiviral drugs. <i>Antiviral Res</i> 1997 Jun;35(1):1-21	
	CZ	Jabs, Thorsten, "Reactive Oxygen Intermediates as Mediators of Programmed Cell Death in Plants and Animals", <i>Biochem Pharmacol</i> 1999 57, 231-245	
	CCA	Kaufmann, Scott H., Serge Desnoyers, Yvonne Ottaviano, Nancy E. Davidson, and Guy G. Poirier, "Specific Proteolytic Cleavage of Poly(ADP-ribose) Polymerase: An Early Marker of Chemotherapy-induced Apoptosis", <i>Cancer Res</i> 1993, 53, 3976	
	CCB	Kidd, Vincent J., PROTEOLYTIC ACTIVITIES THAT MEDIATE APOPTOSIS, <i>Annu Rev Physiol</i> , 1998, 60, 533	
DR	CCC	Kido H, Niwa Y, Beppu Y, Towatari T. Cellular proteases involved in the pathogenicity of enveloped animal viruses, human immunodeficiency virus, influenza virus A and Sendai virus. <i>Adv Enzyme Regul</i> 1996;36:325-47	
DR	CCD	Kirkeboen, K.A. and Strand, O.A. in <i>Acta Anaesthesiol Scand</i> 1999, 43, 275	
DR	CCE	Langer, R. <i>Nature</i> 1998, 392, 5	
X	CCF	List, P.J.M., et al., <i>Arterioscler Thromb Vasc Biol</i> 1999, 19, 14	
EXAMINER		DATE CONSIDERED	
David Shapiro		12/1/01	

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↓	CCG	Lomas DA, Elliott PR, Carrell RW. <i>Commercial plasma alphas-antitrypsin (Prolastin) contains a conformationally inactive, latent component.</i> Eur Respir J 1997 Mar;10(3):672-5	
↓	CCH	Lowenstein, C. J. and Snyder, S.H. in <i>Cell</i> 1992, 70, 705-707	
↓	CCI	Lowenstein C. J. et al. in <i>Proc. Natl. Acad. Sci. USA</i> , 1993, 90, 9730	
↓	CCJ	McCall, T.B. et al., in <i>Biochem. Biophys. Res. Commun.</i> 1992,186, 680	
↓	CKK	Meki AR, Mohey El-Dean ZM. <i>Serum interleukin-lbeta, interleukin-6, nitric oxide and alphas-antitrypsin in scorpion envenomed children.</i> Toxicon 1998 Dec;36(12):1851-9	
↓	CCL	Molle W. et al. in <i>J Immunol</i> 1997, 159, 3555	
↓	CCM	Morel, J. B. and Dangle, J.L., <i>Cell Death Differ</i> 1997, 4, 67 1; Beal, M. F., <i>Curr Opin Neurobiol</i> 1996, 6, 661	
↓	CCN	Nathan, C. in <i>FASEB J.</i> 1992, 6, 3051	
X	CCO	Novradovsky A, Brantly ML, Wacławiw MA, Chaudhary PP, Ihara H, Qi L, Tony Eissa N, Barnes PM, Gabriele KM, Ehrmantraut ME, Rogliani P, Moss J. <i>Endothelial Nitric Oxide Synthase as a Potential Susceptibility Gene in the Pathogenesis of Emphysema in alphas-Antitrypsin Deficiency.</i> Am J Respir Cell Mol Biol 1999 Mar 1;20(3):441-447	
↓	CCP	Ooka T, Hatano Y, Yamamoto M, Ogawa K, Saika S. <i>Protective effects of human urinary trypsin inhibitor against trypsin-induced relaxation in rat aorta.</i> Crit Care Med 1996 Nov;24(11):1903-7	
↓	CCQ	Patel R.P., et al. in <i>Biochim Biophys Acta</i> 1999,1411,385-400	
↓	CCR	Patel T, Gores GJ, Kaufmann SH. <i>The role of proteases during apoptosis.</i> FASEB J 1996 Apr;10(5):587-97	
X	CCS	Pellegrini A, Thomas U, Franchini M, Stockli M, Klauser S, Hunziker P, von Fellenberg R. <i>Identification of an aprotinin antiviral domain.</i> FEBS Lett 1994 May 16;344(2-3):261-5	
X	CCT	Popko B. and Baerwald, K. D. in <i>Neurochem Res</i> 1999, 24, 33 1	
↓	CCU	Premack, B. A. and Schall, T. J., "Chemokine Receptors: Gateways to Inflammation and Infection", <i>Nature Medicine</i> , 2, 1174-1178 (1996)	
↓	CCV	Pryor WA, Dooley MM, Church DF. <i>Mechanisms of cigarette smoke toxicity: the inactivation of human alpha-l-proteinase inhibitor by nitric oxide/isoprene mixtures in air.</i> Chem Biol Interact 1985 Jul;54(2):171-83	
↓	CCW	Punjabi, C. J. et al., in <i>J. Immunol.</i> 1992, 149, 2179	
↓	CCX	Rehman A, Whiteman M, Halliwell B. <i>Scavenging of hydroxyl radicals but not of peroxynitrite by inhibitors and substrates of nitric oxide synthases.</i> Br J Pharmacol 1997 Dec; 122(8):1702-6	
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X	CCY	<del>Remington's Pharmaceutical Sciences 1990, pp. 1519-1675, Gennaro, A. R., ed., Mack Publishing Company, Easton, PA.</del>	
X	CCZ	<del>Sambrook, Fritsch &amp; Maniatis, Molecular Cloning: A Laboratory Manual, Second Edition 1989, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y.</del>	
DR	CBA	Schini et al. in <i>Circ Res</i> 1994, 74, 24	
DR	CBC	Sharpstone D, Rowbottom A, Nelson M, Gazzard B. <i>Faecal alpha I antitrypsin as a marker of gastrointestinal disease in HIV antibody positive individuals.</i> Gut 1996 Feb;38(2):206-10	
DR	CBD	Shimizu T, Pommier Y. <i>DNA fragmentation induced by protease activation in p53-null human leukemia HL60 cells undergoing apoptosis following treatment with the topoisomerase I inhibitor camptothecin: cell-free system studies.</i> Exp Cell Res 1996 Aug 1;226(2):292-301	
X	CBE	Sichko ZhV, Kozlova OL. <i>Experience in treating a herpetic infection with trypsin</i> [Article in Russian]. Vrach Delo 1991 Mar;(3):86-9	
DR	CBF	Smith, M. E. in <i>Neurochem Res</i> 1999, 24, 261	
X	CBG	Szeghy G, Kenyeres B. <i>On the therapy of herpes simplex keratitis with heparin and trypsin.</i> [Article in German] Klin Monatsbl Augenheilkd 1968;153(6):827-30	
X	CBH	Van Molle W, Libert C, Fiers W, Brouckaert P. <i>Alpha I-acid glycoprotein and alpha I-antitrypsin inhibit TNF-induced but not anti-Fas-induced apoptosis of hepatocytes in mice.</i> J Immunol 1997 Oct 1;159(7):3555-64	
DR	CBI	Wood, E.R. et al. in <i>Biochem Biophys Res Commun</i> 1993,191, 767-74	
X	CBJ	Zhirnov OP, Ovcharenko AV, Mel'nikova EE, Gaidamovich Sla, Bukrinskaia AG. <i>Antiviral activity of proteinase inhibitors in cultured cells infected with alpha-viruses.</i> Mol Gen Mikrobiol Virusol 1985 Dec;(12):30-6	
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